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We claim:

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1. A preparation of antibodies which specifically binds to a human APC (adenomatous polyposis coli) protein having an amino acid sequence as shown in SEQ ID NO:1, 2, or 7, and does not specifically bind to other human proteins.

2. A preparation of antibodies which specifically binds to a human APC protein which is the product of a mutant allele found in a tumor, wherein the antibodies do not specifically bind to other human proteins, and wherein the human APC protein is a mutant form of the amino acid sequence shown in SEQ ID NOS:2 and 7, and the mutant allele is a mutant form of the nucleotide sequence shown in SEQ ID NO:1.

3. The preparation of claim 2 wherein the mutant allele contains a mutation selected from the group consisting of

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35 mutations at codons 243, 279, 288, 301,331,413,437, 456,
500, 712, and 1338.

4. The preparation of claim 2 wherein the mutant allele
contains a premature stop codon.

40 5. The preparation of claim 2 wherein the mutant allele
contains a missense mutation.

6. The preparation of claim 2 wherein the mutant allele
contains a frameshift mutation.

7. The preparation of claim 2 wherein the mutant allele
contains a splice junction mutation.

45 8. The preparation of claim 2 wherein the mutant allele
contains an insertion mutation.]

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